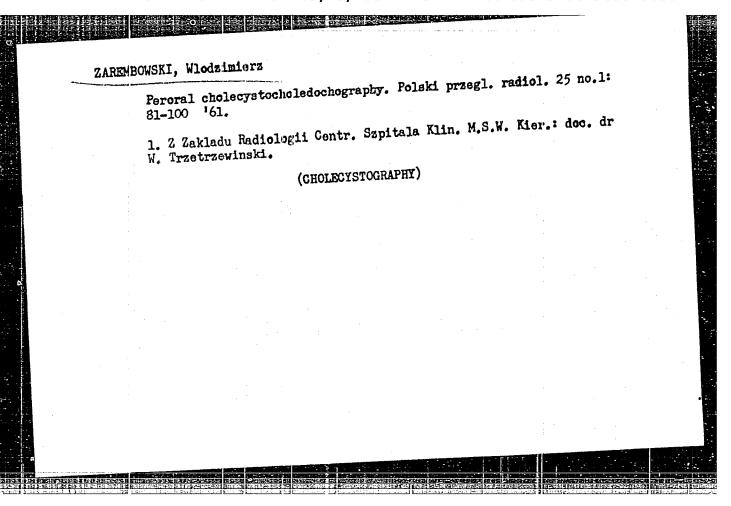
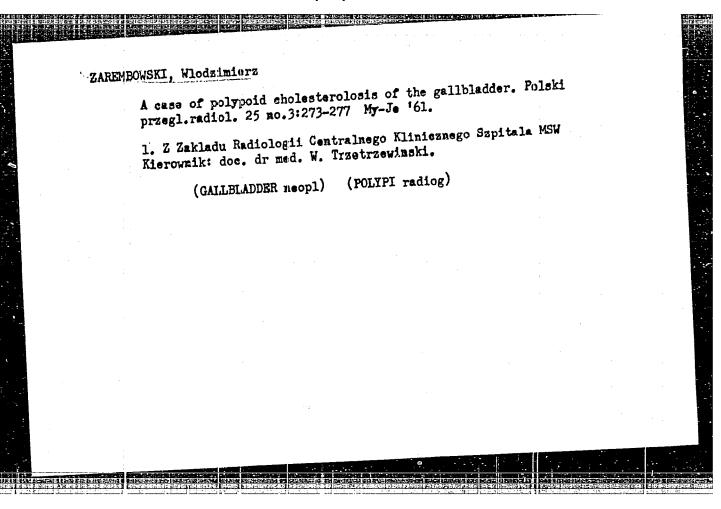
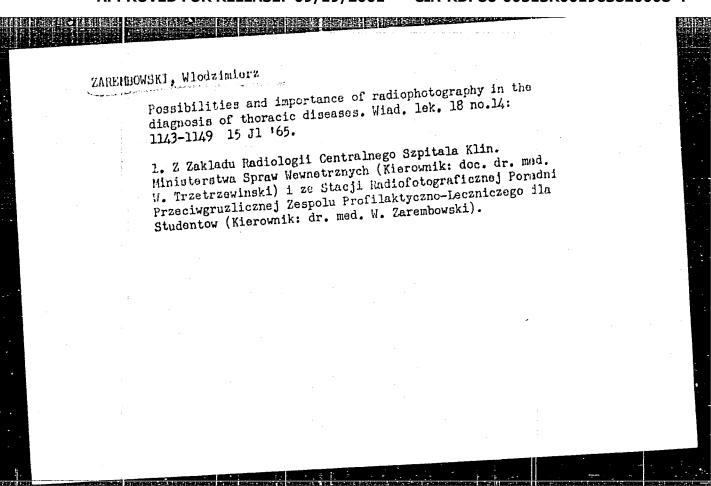
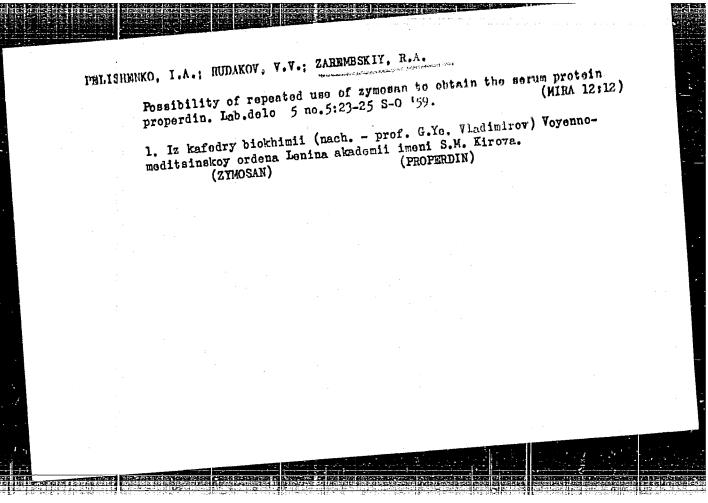
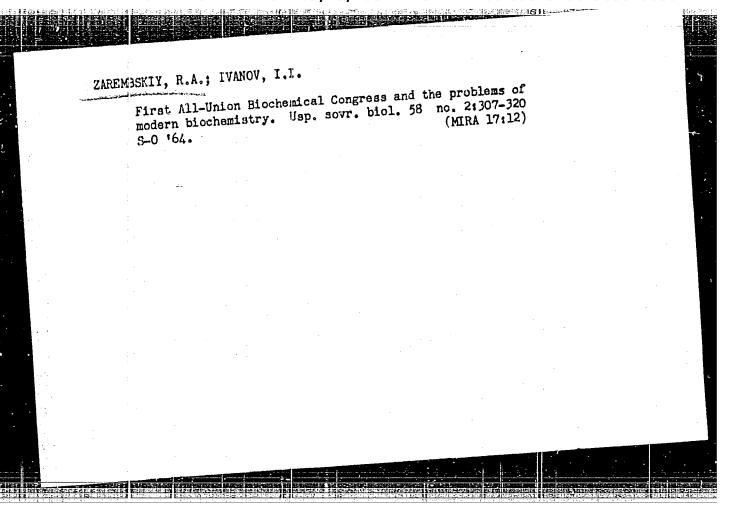
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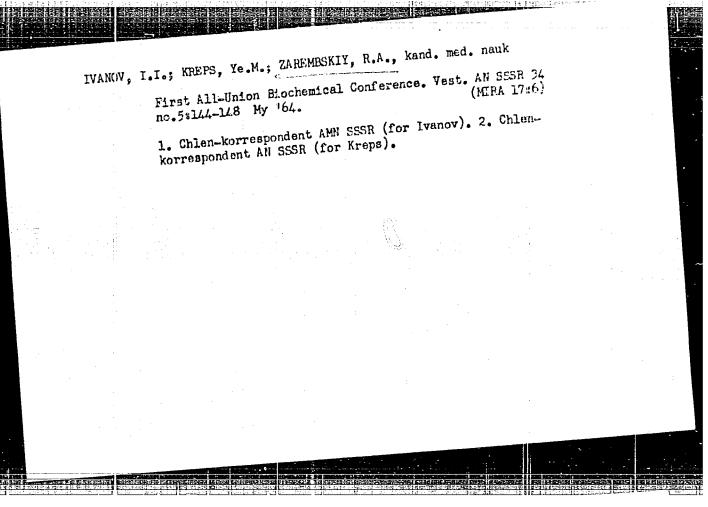




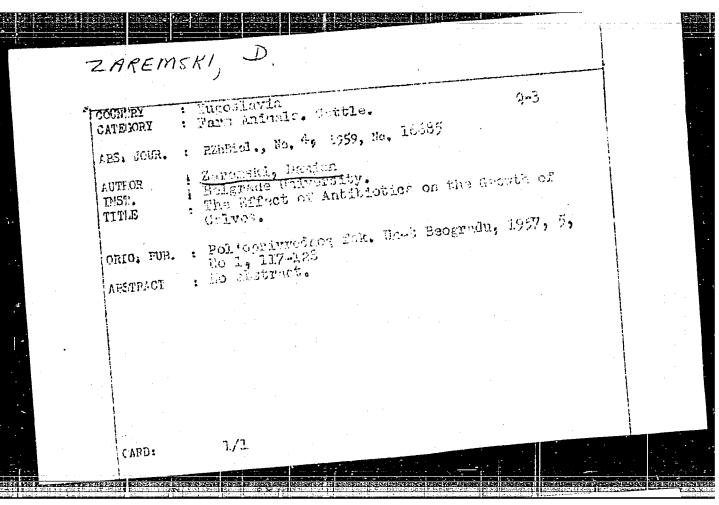


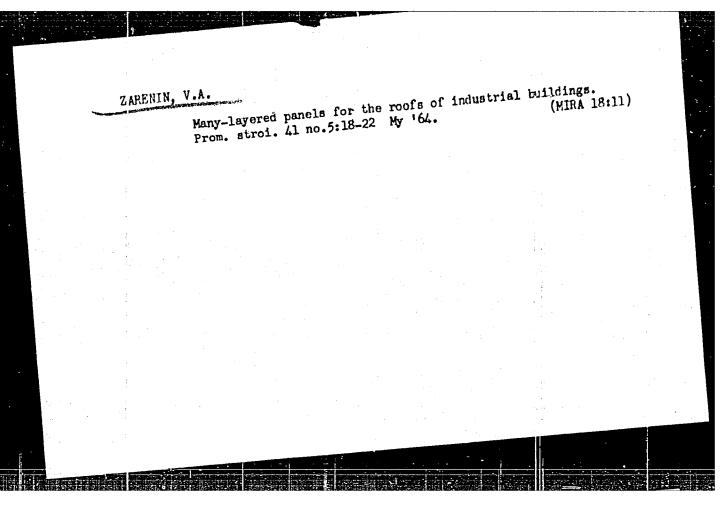
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8/187/60/000/006/001/001 A189/A026

6.3000 (1051,1106, 1138) AUTHOR: Zarenin, Yu. G.

AUTHOR:

Feedback as a Method of Correcting the Frequency Character-

istics of Electromechanical Light Modulators TITLE:

Tekhnika kino i televideniya, 1960, No. 6, pp. 33-44 PERIODICAL:

The author analyzes the frequency characteristic of electromechanical light modulators and suggests the use of a feedback method as described by G. V. Braude (Ref. 3). The linear channel of the electromechanical light modulator may be represented by the differential equation:

 $\left\{ \operatorname{Lmp}^{5} + \left[\operatorname{Lr} + (R_{i} + R)^{m} \right] p^{2} + \left[(R_{i} + R)^{r} + \operatorname{LS} + M^{2} \right] p + (R_{i} + R)^{s} \right\} x = M \cdot e(1)$

where: p - differential operator; x - displacement of the mechanical system; 8 - electromotive force of the power source; m - electromechanical coupling factor; L = inductance of the galvanometer electric circuit; R effective resistance of the galvanometer electric circuit; in - mass of the galvar.ometer moving system; r - friction of the galvanometer moving system;

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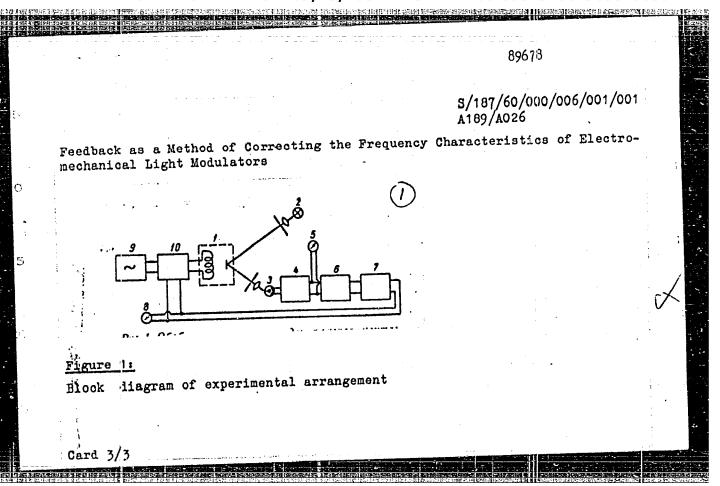
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S/187/60/000/006/001/001 A189/A026

Feedback as a Method of Correcting the Frequency Characteristics of Electromechanical Light Modulators

S - elasticity of the galvanometer moving system; and R_i - internal resistance of the power source. Starting with this equation, the author proves the theoretical possibility of applying feedback to control the frequency characteristic of the system. Experimental investigations were conducted with a nodel, shown in Figure 1, and with a 4A-1 (4D-1) mirror galvanometer produced by the Zavod "Lenkinap" ("Lenkinap" Plant). The model consists of produced by the Zavod "Lenkinap" ("Lenkinap" Plant). The model consists of interproduced by the Zavod "Lenkinap" ("Internal resignation of application of output (1) galvanometer, (2) illuminating system, (3) photoelement with slit aperture, (4) preamplifier, (5) instrument for measuring the amplitude of output signal, (6) feedback signal-shaping unit, (7) output amplifier, (8) instrusing all (6) feedback signal-shaping unit, (9) audio-frequency generator, ment for measuring the depth of feedback, (9) audio-frequency generator, and (10) unit providing the required modulator feed according to the direct and (10) unit providing the required modulator feed according to the direct samples. Based on these results, the author states that the feedback measuring the depth of frequency correction of industrial galvanometers. There are 8 graphs, 1 block diagram, 1 circuit diagram, and 4 Soviet references.



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6.9500	78172 sov/103-21-3-18/21
UTHOR:	On the Theory of Linear Systems of the Third Order
TITLE:	On the Theory of Division of the Theory of the
PERIODICAL:	pp 417-419 (USSR)
ABSTRACT:	The paper investigates the amplitude-frequency The paper investigates the amplitude-frequency istics of linear systems described by the following istics of linear systems described by the following by the follow
	where p is a differentiation operator; (p is an instant- aneous value at the output of the system; I is the in- stantaneous value of the input signal; A, B, C, and D are stantaneous value of the input signal; A, B, C, and D are constant coefficients. After dividing Eq. (1) by A the new coefficients are designated a, b, c, and d, thus obtaining: (p ³ + 4p ⁴ + bp + c)? ** 4p.
Card 1/4	

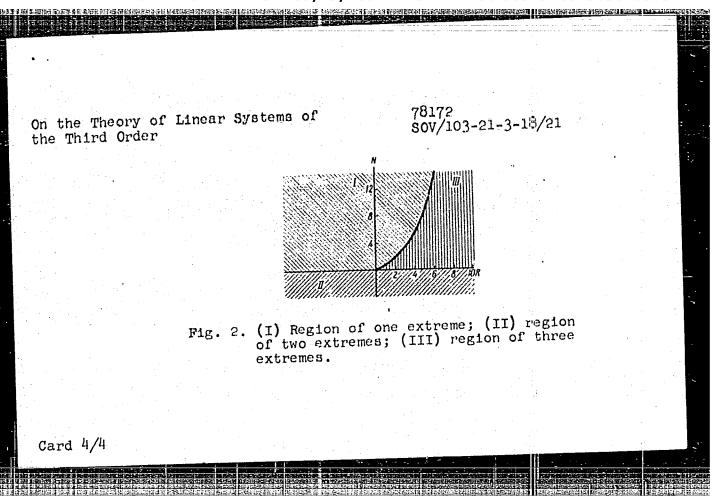
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the Third Order		the amplitude-freque	ency
	Thereby the equation of characteristic is:	the ampirous	
	$K(\omega) = \left \frac{d}{H(\omega)} \right = V$	$\frac{d}{(c-a\omega^2)^2+(b\omega-\omega^3)^2}$	(3)
		•	ssion under and intro-
	After a single different the root sign in the deducing designations:	enominator of Eq. (3)	
	ducing debia 2ac =	$N \ \ 2b - a^2 = R,$	(4)
	the polynomium:		
	3,03	$2R\omega^3+N\omega=0,$	(5)
	the roots	of which are:	
•			(6)
	$\omega_1 = 0$, $\omega_{2.3.4.5} = 0$ It is shown that in acceptance observed that $\omega_{2.3.4.5} = 0$	cordance with Eq. (6)) three types of This is illustrated
Card 2/4	It is shown that in actresis	tics are possible.	
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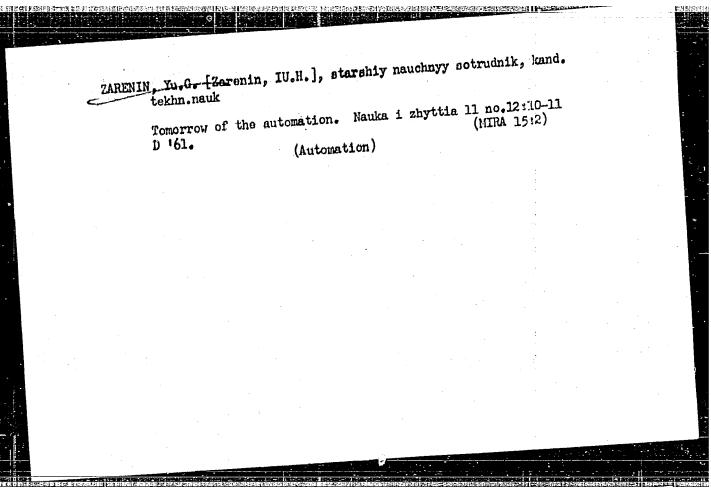
On the Theory of Linear Systems of 78172 SOV/103-21-3-18/21 the Third Order

In Fig. 1, where the dotted lines indicate the theoretically possible but practically not applicable frequency characteristics. A diagram with N, R coordinates, shown in acteristics. A diagram with N, R coordinates, shown in results obtained. There are 3 figures; and 1 Soviet reference.

SUBMITTED: September 28, 1959

Card 3/4





5/142/62/005/003/004/009 E140/E435 Geranin, V.A., Zarenin, Yu.G., Karnsvskiy, M.I. Redistribution of signal probabilities in systems 6.9000 for the transmission and processing of information PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Radiotekhnika, AUTHORS: TITLE: The problem frequently arises of transforming the v.5, no.3, 1962, 339-346 probability distribution of a signal in transmission or in information processing, for example in employing the Monte Carlo The authors attempt to solve the problem of specifying the transmission characteristics of a converter, given the input and output probability distributions, for which they know no A.I.Kitov and N.A.Krinitskiy (Elektronnyye tsifrovyye mashiny i programmirovaniye (Electronic digital computers and programming), Fizmatgiz, 1959) have attempted to solve the special case where the input distribution is uniform published solution. mathematical apparatus developed in probability theory for the related problem of the functional transformation of Continuous Card 1/2

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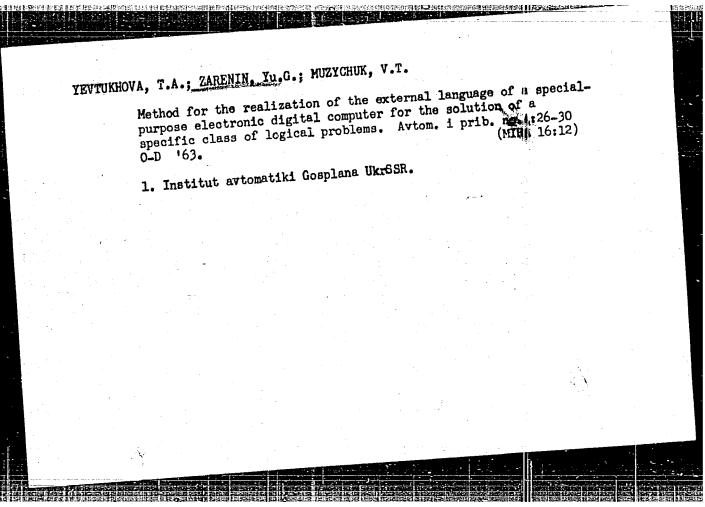
random quantities, reducing to the determination of the probability distribution of a given random function if the distribution of the argument is known. The solution of the problem is given by a differential equation. Illustrations are furnished by the transformation of "truncated normal" distribution to uniform and the reverse transformation. While the method is not directly applicable to discrete distributions, a method due to A.A.Kharkevich (Ocherki obshchey teorii svyazi. (Outline of a general theory of communications), GITTL, 1955).is recommended. There are 5 figures.

ASSOCIATION: Kafedra akustiki i zvukotekhniki, Kiyevskiy ordena Lenina politekhnicheskiy institut (Acoustics and Sound Engineering Department, Kiyev Order of Lenin

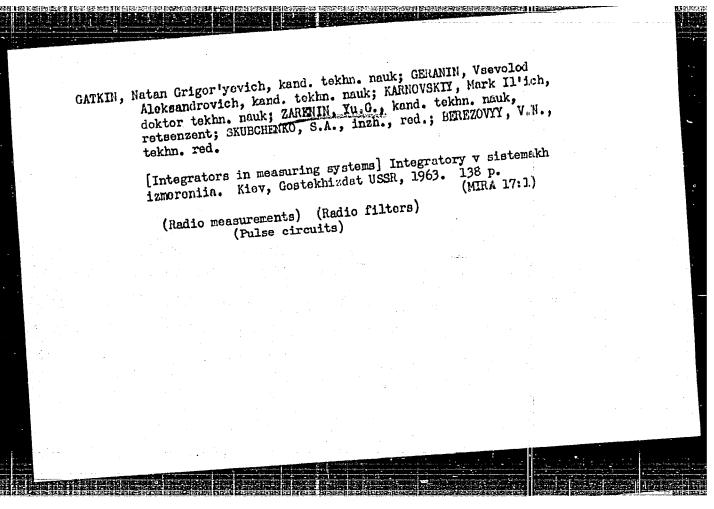
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SUBMITTED: November 10, 1960

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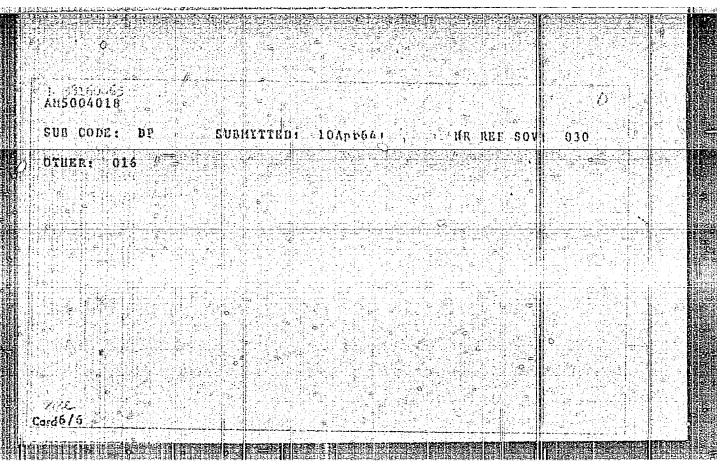
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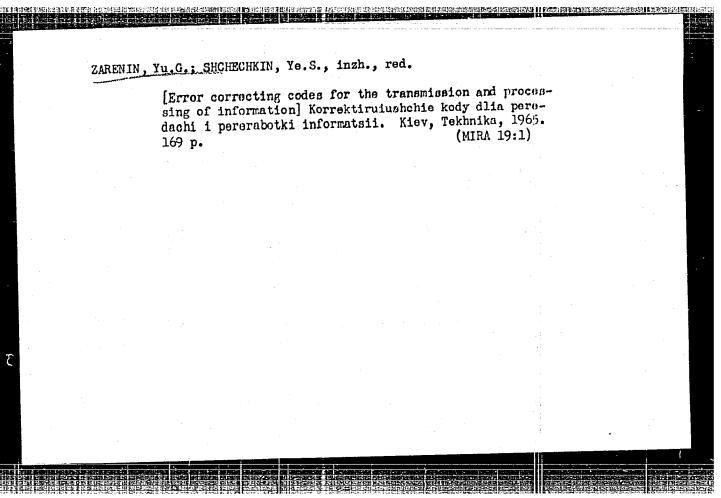
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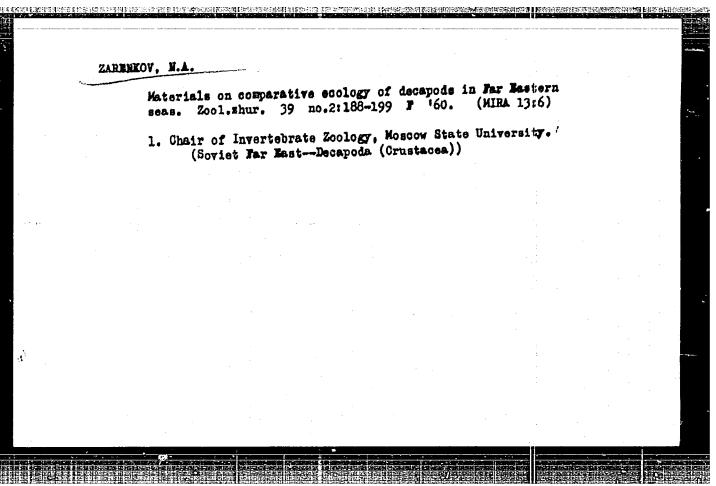
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	AUTHOR: Zarenina, I.L.	
	TITLE: The effect of television screens on some functions of the visual analyser	
	SOURCE: Firielohichnyy zhurnel v. 10 no. 9, 1964 815-818	
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7111	were conducted before and immediately after 3 hours of relevision viewing, and involved a	
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ZARENKOV, N.A.; YU VAN LIEU; NGUEN TIEN KAN' General characteristics of the quantitative distribution of plankton and benthos in the Gulf of Tonkin and the adjacent part of the South China Sea. Dokl. AN SSSR 118 no.6:1389-1391 F '63. (MIRA 16:3) 1. Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova. Predstavleno akademikom D.I.Shcherbakovym. (Tonkin, Gulf of—Marine biology) (South China Sea—Marine biology)

٠	ZAREN	KOV, N	.A.												
		Notes on some decapod crustaceans (Decapoda, Crustacea) of the Sea of Okhotsk and the Bering Sea. Trudy Inst. okean. 34:343-350 '60. (HIRA 13:10)													
	1. Kafedra zoologii bespozvonochrykh Moskovskogo gosudarstvennogo universiteta.												÷.		
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MUSIYKO, V.A. [Musiiko, V.O.]; ZARETSKAYA, I.V. [Zarets'ka, I.V.]

Serum protein fractions in Brucella infections following rosmigenray irradiation. Ukr. biokhim. zhur. 36 no.1:46-51 '64.

(MIRA 17:12)

1. Department of Biochemistry of the Pirogov Medical Institute, Odessa.

ZARETSKAS, G.S. [Zareckas, G.]; MATUKONIS, A.V.

Effect of twisting, tension, and time of relaxation on the changes in the torque of rayon multifilament yarns. Izv. vys. ucheb. zav.; tekh. teks. prom. no.6:18-22 165.

1. Kaunasskiy nauchno-issledovatel'skiy institut tekstil'noy promyshlennosti i Kaunasskiy politekhnicheskiy institut. Submitted August 30, 1965.

83739

s/056/60/038/004/032/048 B006/B056

24.6520 AUTHORS:

Grin', Yu. T., Drozdov, S. I., Zaretskiy, D. F.

TITLE:

The Moments of Inertia of Odd Atomic Nuclei A

PERIODICAL:

Zhurnal eksperimental noy i teoreticheskoy fiziki, 1960,

Vol. 38, No. 4, pp. 1297 - 1303

TEXT: In the regions 150 < A < 190 and A > 225 the atomic nuclei are deformed and, besides single-particle levels, they have also rotational ones. It was found experimentally that the moments of inertia of odd nuclei surpassed those of even nuclei considerably. Several authors have dealt with the derivation of formulas for the moments of inertia of even and odd nuclei, without, however, taking pair correlation into account. The authors of the present paper, for the purpose of determining the moments of inertia (taking pair correlation into account), use the Green functions for a finite system having an odd number of particles. The calculation method is analogous to that used by A. B. Migdal for even-even nuclei (Refs. 3,4). An explicit formula (18) is obtained for δJ , in which the difference of the moments of inertia $J_e(x_e) - J_e(x_o)$

Card 1/2

The Moments of Inertia of Odd Atomic Nuclei \$/056/60/038/004/032/048
8006/8056

occurs as an unknown term (the subscripts e and o mean even and odd). $\kappa = \hbar \omega_0 \beta/2\Delta, \, \hbar \omega_0 = 41 \, \text{A}^{-1/3} \, \text{Mev. The } \Delta \, \text{values are partly known from the experiment and partly determined by interpolation according to the formula <math>\Delta_e = \Delta_0 + 1/Q_0$, where Q_0 denotes the density of the single-particle levels near the Fermi surface. For calculating the difference of J_e , Δ_e , Δ_o , β_e , and β_o must be known. These four parameters are given in Table 1 for a total of 19 nuclei between 64^{Gd} and 96^{Cm} , as well as the relative change in the moments of inertia for nuclei having odd numbers of neutrons $\delta J/J_{\text{T}}$ (in %). (J_{T} is the moment of inertia of the solid; $\delta J/J_{\text{T}} \sim A^{-1/3}$). Table 2 gives the same parameters for nuclei having odd numbers of protons (11 nuclei from 67^{Ho} to 95^{Am}). The authors thank S. T. Belyayev and A. B. Migdal for discussions. There are 2 tables and 9 references: 4 Soviet, 1 US, 1 Dutch, and 3 Danish.

SUBMITTED: November 17, 1959

Card 2/2

ALEKSEYEV, Vladimir Tvanovich; ZARETSKIY, L. .; TYUKOVIN, I.N.;

BOGATOV I.P., retsenzent; BELOV, M.I., retsenzent;

IVANOV, K.A., retsenzent; MEYYFROVICH, M.G., retsenzent;

ORFANOV, I.K., retsenzent; "ITOV, S.M., retsenzent;

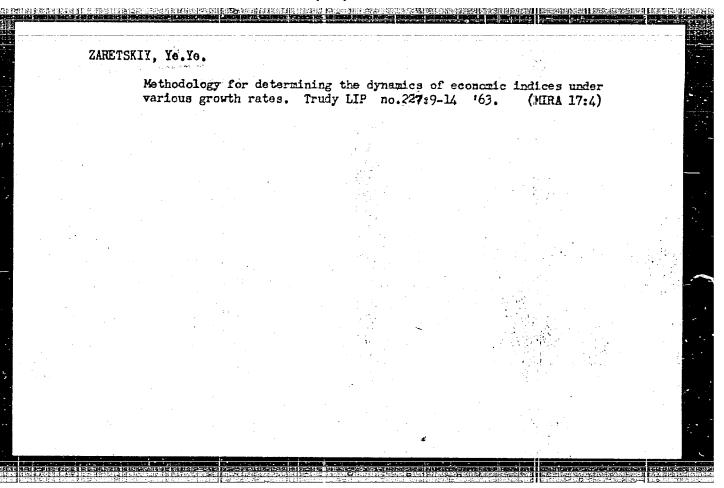
TONYAYEV, V.I., retsenzent

[Moscow-Gorkiy-Moscow; guidebook on the Moscow Canal, and the Volga, Oka, and Moscow Rivers] Moskva - Gor'kii - Moskva; cutevoditel' po kanalu imeni Moskvy, Volge, Oke i Moskve-reke. Moskva, 1zd-vo "Transport," 1964. 101 p. (MIRA 17:6)

Cancer of the corpus uteri; according to materials from the Kharkov Province Oncological Dispensary (1950-1955). Ped., akush. i gin. 23 no.6:53-56 *61. (MINA 15:4) 1. Ginekolog*oheskoye otdeleniye Khar*kovekogo oblastnogo onkologicheskogo dispansera (glavnyy vrach - zasluzhennyy vrach USIR N.G. Stanislavskaya [Stanislavska, N.H.]. (UTERUS--CANCER)

DYATLOVA, V.N.; ZARETSKIY, Ye.N., kand. tekhn. nauk, rotsenzent; KUBAREV, V.T., inzh., red.

[Corrosion resistance of metals and alloys; a handbook] Korrozionnata stoikost' metallov i splavov; spravochnik. Izd.2., perer. i dop. Moskva, Izd-vo "Mashinostroenie," 1964. 350 p. (MIRA 17:6)



ACCESSION NR: APHOLLI377

5/0300/64/036/001/0046/0051

AUTHOR: Musiyko, V. O.; Zarets'ka, I. V.

TITLE: Protein fractions of blood serum on infection with the causative factor of brucellosis and irradiation with X-rays

SOURCE: Ukrayins'kywy biokhimichnywy zhurnal, v. 36, no. 1, 1964, 46-51

TOPIC TAGS: irradiation, blood serum, brucellosis, X-ray, alpha sub 1 globulin, alpha sub 2 globulin, electrophoresis, albuminemia, gamma globulin, immunization, brucellosis vaccine

ABSTRACT: The changes in the protein fractions of the blood serum of guinea pigs infected with Br. abortus bovis and subjected to irradiation with X-rays in a dose of 200 r were subjected to an electrophoretic investigation. Infection with brucellosis produced a considerable decrease in the albumin content of the blood serum. Albumineamia also resulted in animals irradiated before or after infection. Infection of the animals or infection preceded or followed by irradiation produced a reduction in the amount of α_1 -globulins and an increase

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in the amount of α_2 -globulins. The γ -globulin content increased in the blood serum of animals irradiated before or after infection. The increase in the level of γ -globulins was enhanced by immunization of guinea pigs with live brucellosis vaccine 2 days before irradiation and 30 days before infection with brucellosis. The rate of survival of infected animals after irradiation was increased by immunization. The results obtained are of interest, because irradiation as such, in the absence of infection, reduces the level of γ -globulins in the blood serum. Orig. art. has: 2 figures and 1 table.

ASSOCIATION: Kafedra Biokhimii Odesskogo Meditsinskogo Instituta imuni Pirogova (Chair of Biochemistry, Odessa Medical Institute)

SUBMITTED: 22Mar63" DATE ACQ: 11Feb61 ENCL: OX

SUB CODE: BC, NS NO REF SOV: 005 OTHER: COO

Card 2/2

ZARETSKAS, G.S. [Zareckas, G.]

Type SD-4 instrument for determining the torsion characteristics of textile fibers. Izv. vys. ucheb. zav., tekh. tekst. prom. no.2: 23-27 '65.

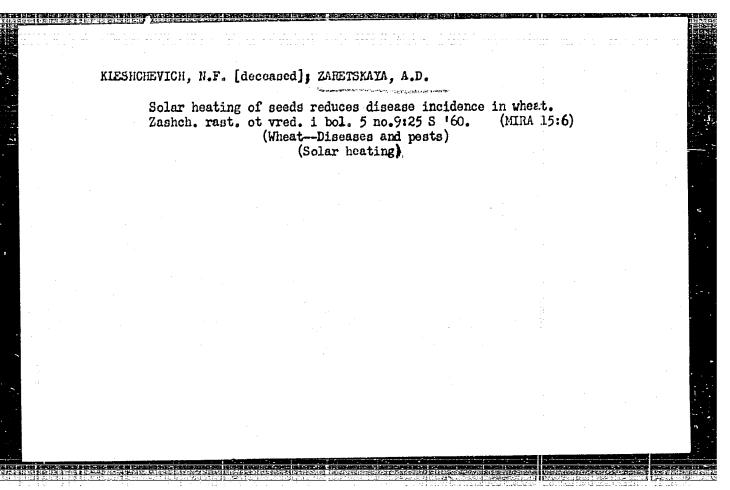
1. Kaumasskiy nauchno-issledovatel'skiy institut tekstil'noy promyshlennosti.

BUDRIS, A.Ye.; ZARETSKAS, V.S., inzh.

New method of testing the supporting surface of fabrics. Tekst.pron. 21 no.5:77-79 My '61. (MIRA 15:1)

1. Zaveduyushchiy laboratoriyey voloknistykh materialov Instituta energetiki i elektrotekhniki AN Litovskoy SSR (for Budris).

(Textile fabrics--Testing)



VOLODARSKIY, R.F.; ARONOV, V.I.; D'YAKONOV, Ye.G.; SHIRIKOV, V.P.; FEDYNSKIY, V.V., doktor fiz.-mat. nauk, prof., red.; ZARETSKAYA, A.I., ved. red.; BASHMAKOV, G.M., tekhn. red.

[Use of electronic calculating machines to interpret gravity and magnetic fields]Primenenie elektronno-schetnykh mashin dlia interpretatsii gravitatsionnykh i magnitnykh polei. Pod red. V.V.Fedynskogo. Moskva, Gostoptekhizdat, 1962. 74 p. (MIRA 15:9)

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(Magnetic anomalies)

HROD, Ignatiy Osipovich; VYSOTSKIY, I.V., red.; LEVINSON, V.G., red.; ZARETSKAYA, A.I., ved. red.

[Fundamentals in the study of oil- and gas-bearing basins]
Osnovy uchenicia o neftogazonosnykh basseinakh. Moskva, Izdvo "Nodra," 1904. 58 p. (MIRA 17:5)

IVANOVA, Z.P., red.; ZARETSKAYA, A.I., vod. red.; POLOSINA, A.B., tekhn. red.

[Stratigraphic scale of Paleozoic sediments; transactions] Stratigraficheskie skhemy paleozoiskikh otlozhenii; trudy. Eodevon. Pod red. Z.P.Ivanovoi. Moskva, Gostoptskhizdat, 1962. 132 p.

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1. Soveshchaniye po utochneniyu unifitsirovannykh stratigraficheskikh skhem paleozoya Volgo-Ural'skoy neftegazonosnoy provintsii, Moscow, 1960.

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(Geology, Stratigraphic)

RIVKIN, Il'ya Yakovlevich; ZARETSKAYA, A.I., ved. red.

[Automatic logging stations; on a compound cable] Avtomaticheskie karotezhnye stantsii; na mnogozhil'nom kabele.

Moskva, Nedra, 1964. 275 p. (MIRA 17:12)

ISKANDEROV, Mamed Abdul ogly; MIRCHINK, M.F., red.; ZARETSKAYA, A.I., ved. red.; STAROSTINA, L.D., tekhn. red.

[Efficient development of gas-condensate fields; based on an analysis of the development of gas-condensate oil fields of the Apsheron Peninsula] Ratsional'naia razrabotka gazokondensatnykh mestorozhdenii; na opyte analiza razrabotki gazokondensatnykh i gazokondensatno-neftianykh mestorozhdenii Apsheronskogo poluostrova. Moskva, Gostoptekhizdat, 1963. 58 p. (MIRA 16:10)

1. Chlen-korrespondent AN SSSR (for Mirchink).
(Apsheron Peninsula--Condensate oil wells)

KOMAROV, Sergey Grigor'yevich; MUKHER, A.A., retsenzent; YUNGENS, S.M., ved. red.; ZARETSKAYA, A.I., ved. red.; POLOSINA, A.S., tekhn. red.

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IL'INA, Agniya Petrovna; ZAREISKAIA, A.I., vedushchiy red.; POLOSINA, A.S., tekim. red.

[Neogene mollusks in Kamchatka] Molliuski neogena Kamchatki. Moskva, Gostoptekhizdat, 1963. 241 p. (Leningrad, Vsesoiuznyi neftianoi nauchno-issledovatel'skii geologorazvedochnyi institut. Trudy, no.202). (MIRA 16:6)

(Kamchatka--Mollusks, Fossil)

ROZANOV, Leonid Nikolayevich; OVANESOV, Gurgen Pavlovich; AKSENOV, Adol'f Alekseyevich; NADEZHDIN, Aleksandr Danilovich; ZARETSKAYA, A.I., ved. red.; DUBROVSKAYA, L., tekhn. red.

[Method for rating producible and prospective reserves of oil and gas in platform areas as exemplified by the studies carried out in the Bashkir A.S.S.R.] Metodika otsenki perspektivnykh i prognoznykh zapasov nefti i gaza platformentnykh oblastei (na primere Bashkirskoi ASSR). Moskva, Gostoptekhizdat, 1963. 81 p. (MIRA 16:11)

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[Orekhovka key well (Kuybyshev Province)] Orekhovskaia opornaia skvazhina; Kuibyshevskaia oblast'. Moskva, Gostoptekhizdat, 1963. 90 p. (MIRA 16:7)

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BELOVA, M.B.; VASIL'YEV, V.G.; VLASOV, G.M.; GRYAZNOV, L.P.; DRABKIN, I.Ye.; ZHEGALOV, Yu.V.; KARBIVNICHIY, I.N.; KLENOV, Ye.P.; KRY-LOV, V.V.; TITOV, V.A.; ZARETSKAYA, A.I.; Vedushchiy red.; FB-DOTOVA, X.G., tekhm. red.

[Geology and oil and gas potentials of Kamchatka] Geologicheskoe stroenie i perspektivy neftegazonosnosti Kamchatki. Moskva, Gos. nauchno-tekhn. izd-vo neft. i gorno-toplivnoi lit-ry, 1961. 343 p. (MIRA 14:9)

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FEDYNSKIY, V.V., doktor fiziko-matom. nauk, red.; LEVINSON, V.G., kand. geol.-mineral. nauk, red.; TOPCHIYEV, A.V., akad. NAGIYEV, M.F., akad,, red.; SHUYKIN, N.I., red.; MIRCHINK, M.F., red.; TREBIN, F.A., doktor tekhn. mauk, red.; SANIN, P.I., doktor khim. nauk; SUKHANOV, V.P., inzh., red.; PANOV, V.V., kand. tekhn. nauk, red.; LONEL', A.G., vedushchiy red.; ZARETSKAYA, A.I., vedushchiy red.; FEDOTOVA, I.G., tekhn. red.

[Reports of the International Petroleum Congress. 5th New York, 1959] Doklady V Mezhdunarodnogo neftianogo kongressa, New York, 1959. Moskva, Gos. nauchno-tekhn. izd-vo neft. i gorno-teplivnoi lit-ry. Vol.l. [Geology and geophysics] Geologiia i geofizika. Pod red. V.V. Fedynskogo i V.G.Levinsona. 1961. 382 p. (MIRA 14:9)

1. International Petroleum Congress. 5th, New York, 1959. 2. AN Azerbaydzhanskoy SSR (for Nagiyev). 3. Chleny-korrespondenty AN SSSR (for Shuykin, Mirchink).

(Petroleum geology) (Gas, Natural—Geology)
(Prospecting—Geophysical methods)

VASIL'YEV, V.G., red.; ZARETSKAYA, A.I., vedushchiy red.; MUKHINA, E.A., tekhn. red.

[Geophysical prospecting in studying the geology of Eastern
Siberia; articles on gephysical investigations] Geofizicheskie raboty pri reshenii geologicheskikh zadach v Vostochnoi Sibiri; shornik
statei po geofizicheskim issledovaniiam. Pod red. V.G. Vssil'eva.
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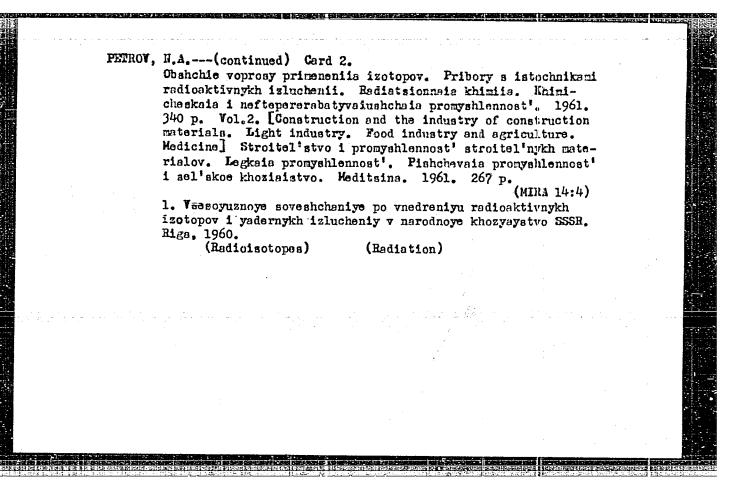
1. Russia(1917- R.S.F.S.R.)Glavnoye geologicheskoye upravleniye. (Siberia, Eastern-Prospecting-Geophysical methods)

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PETROV, N.A., red.; PETRENKO, L.I., red.; SAVITSKIY, P.S., red.; SINITSIN, V.I., red.; KOLOTYRKIN, Ye.M., red.; SYRKUS, N.P., red.; ROHM, R.F., red.; AMTYSHEV, P.I., red.; VARTAZAROV, S.Ye., ned.; ZAYTSEV, A.I., red.; ZEZYULINSKIY, V.M., red.; ZEDGINIDZE, G.A., red.; MARTYNKIN, F.F., red.; ROGACHEV, V.I., red.; SLATINSKIY, A.N., red.; LEVINA, Ye.S., vedushchiy red.; TITSKAYA, B.F., vedushchiy red.; PERSHINA, Ye.G., vedushchiy red.; IONEL, A.G., vedushchiy red.; ZARETSKAYA, A.I., vedushchiy red.; MIMHINA, E.A., tekhn.red.

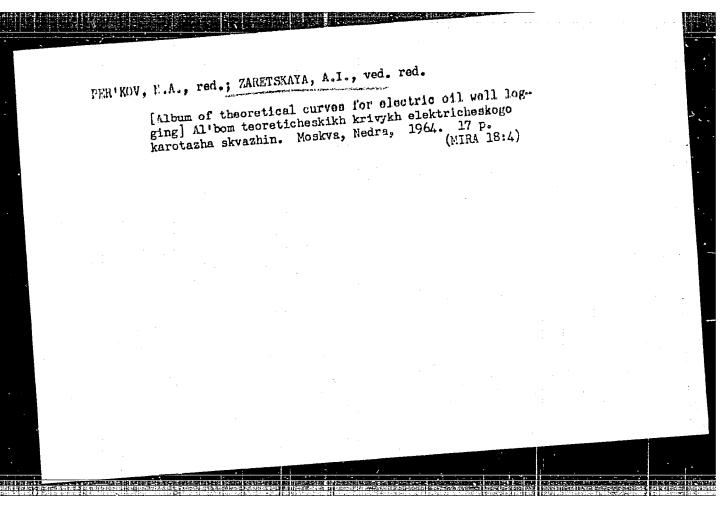
[Transactions of the Conference on the Introduction of Radioactive Isotopes and Nuclear Radiation into the National Economy of the U.S.S.R.] Trudy Vsesciuznogo soveshchmiis po vnedreniiu radioaktivnykh izotopov i isdernykh izluchenii v narodnoe khoziaistvo SSSR. Pod red. N.A.Petrova, L.I.Petrenko i P.S.Savitskogo. Moskva, Gos.nauchno-tekhn.izd-vo neft. i gorno-toplivnoi lit-ry. Vol.1. [General aspects of isotope applications. Instruments with sources of radioactive radiation. Radiation chemistry. Chemical and petroleum refining industry]

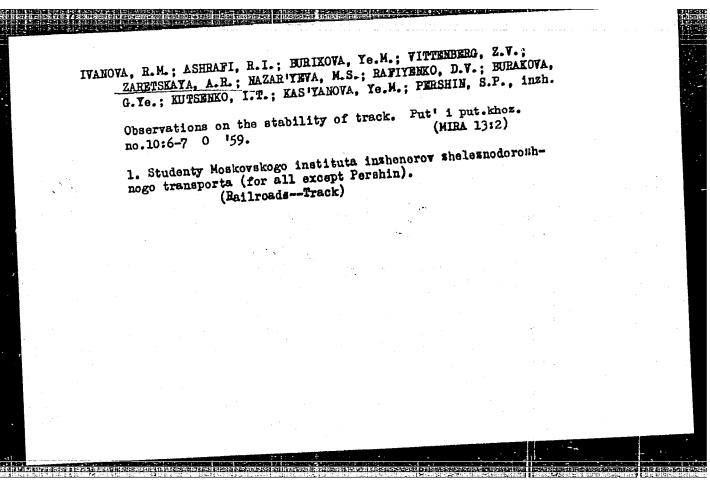
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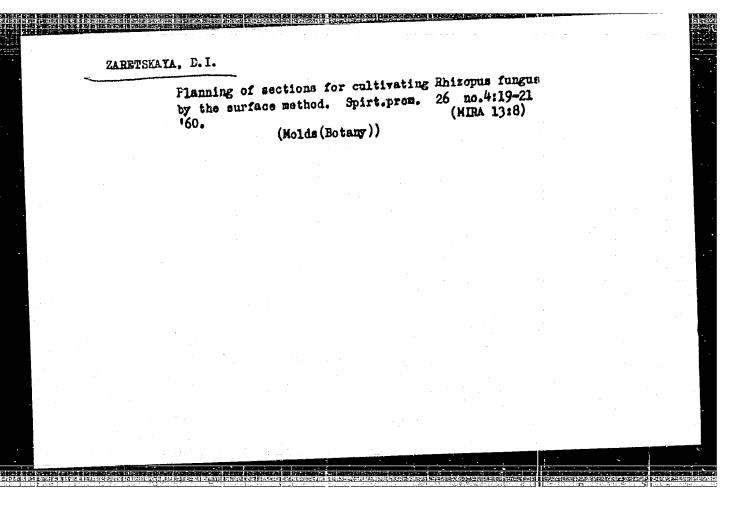


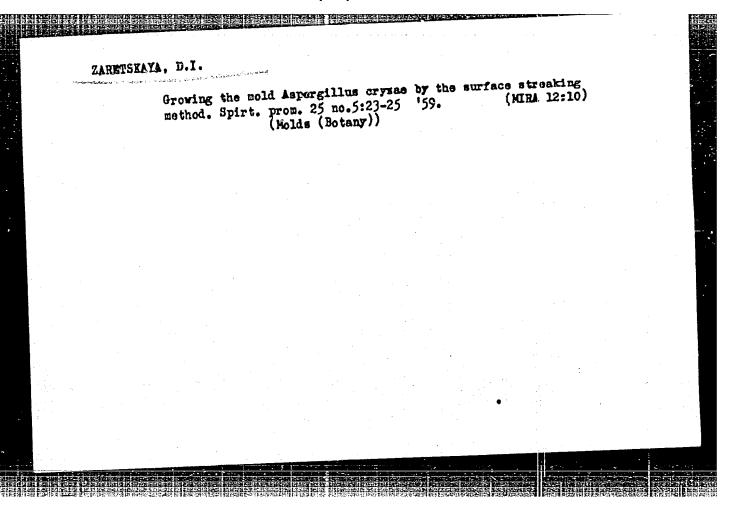
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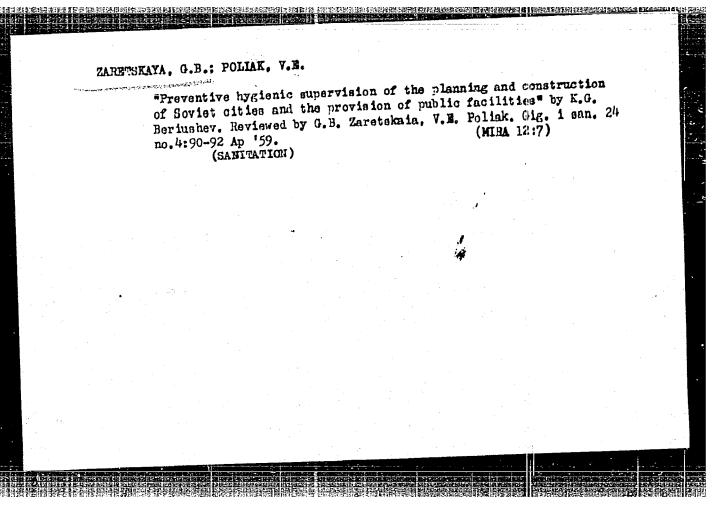
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ZARETSKAYA, G.M. (Leningrad); MEL'NICHEKO, A.A. (Leningrad); FILONENKO,
N.G. (Leningrad)

Investigating silicon carbide formed during the smelting
of iron-silicon-chromium alloys. Izv. AN SSSR. Met. 1 gor.
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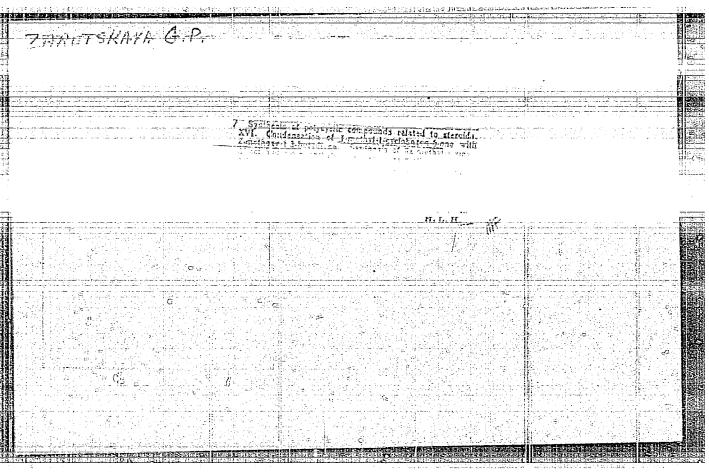
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FILONENKO, N.Ye.; ZARETSKAYA, G.M.

Silicon cerbide and ferrosilicochrone. Zhur. prikl. khin. 38 nc.4:
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1. Vsesoyuznyy nauchno-issledovatel'skiy institut abrazdvov i
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ZAREFIGATA, I. I.

Mor., Acetylene Leb., Inct. Organic Cheristry, Da.t. Chem. Sci., Acad. Sci.,
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Iz. Ak. Nauk SSSR, Otdel, Khim. Mauk, No. 3, 1940;

"....XVII. Hydration of Hydrocarbons of the Divinylacetylene Series," ibid.,
No. 1, 1941;

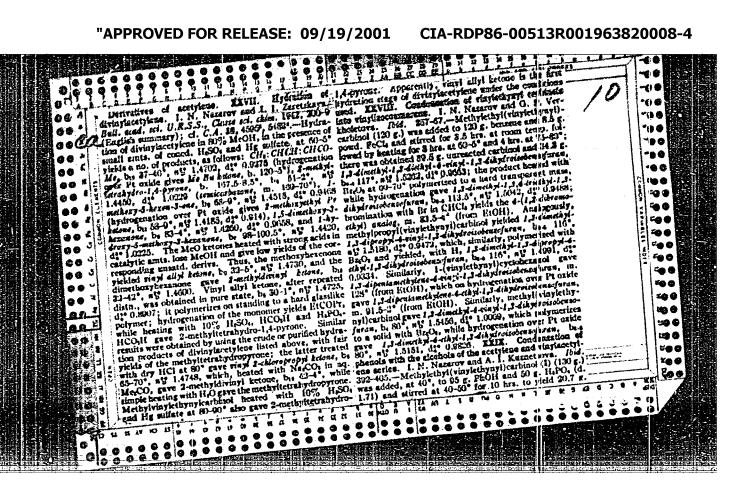
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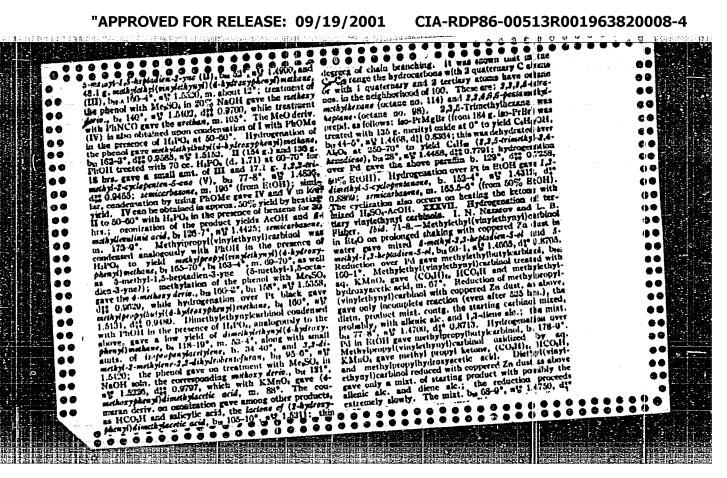
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Series. Cyclivation of Allyl Isopropenyl Ketone to 1,3-Disethylcyclopentene-1Cne-5," ibid., No. 1, 1944;

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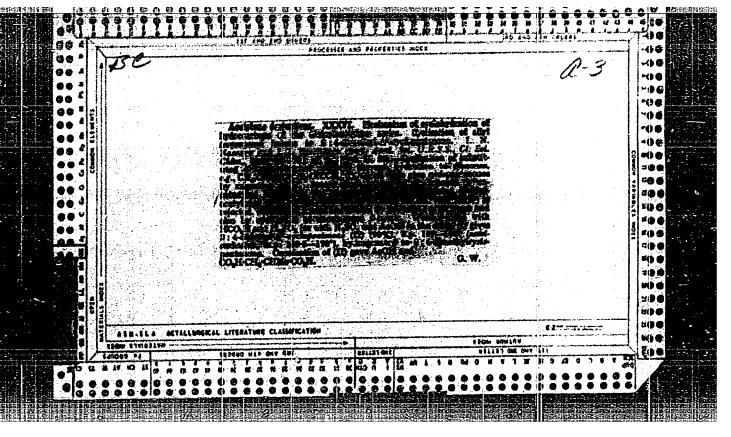
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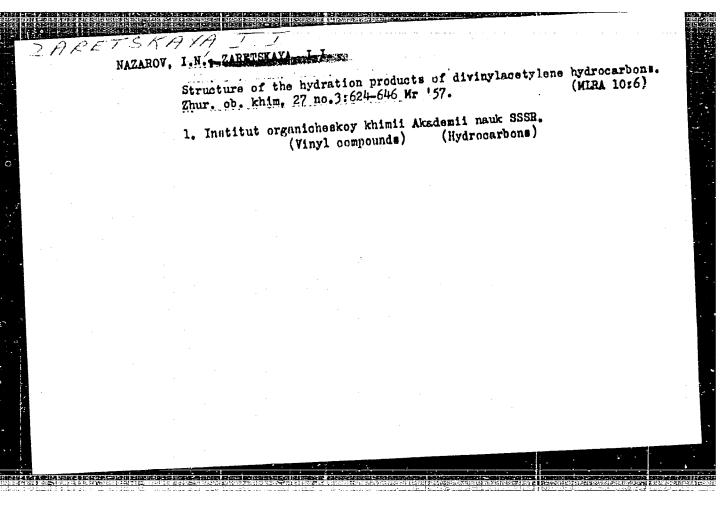
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NAZAROV, I.N.; KAZITSYNA, L.A. ZIBETSKAYA, I.I.

Absorption spectrum analysis of 2,4-dinitrophenylhydrazones of carbonyl compounds. Zhur. ob. khim. 27 no.3:606-623 Mr '57. (MIRA 10:6)

1. Institut organicheskoy khimii Akademii nauk SSSR. (Hydrazones.—Spectra) (Carbonyle)



ZARETSKAYA, I. I.

USSR/Chemistry - Acetylene, Derivatives Chemistry - Olefins, Hydration of Apr 48

"Acetylene Derivatives: No 65, Mechanism of the Hydration and Cyclization of of Dienes," I. N. Nazarov, I. I. Zaretskaya, Inst Org Chem, Acad Sci USSR, 9 3/4 pp

"Zhur Obshch Khim" Vol XVIII (LXXX), No 4

5-Methyl-1, 5-octadiene-3-in and 5-ethyl-1, 5-heptadiene-3-in are readily hydrated inaqueous solutions of methanol in the presence of sulfuric acid and mercury sulfate, forming 5-methyl-1, 5-octadiene-4-on and 5-ethyl-1, 5-heptadiene-4-on. Both of these are readily cyclized by phospheric or hydrochloric acid at 60 - 65°, forming the corresponding cyclopentanones. The latter can also be prepared directly from dienins by cyclohydration. Submitted 7 Apr 1947.

PA 8/49 140

ZARETSKAYA, I. I.

"Hydration of Hydrocarbons of the Divinyl-Acetylene Series and Cyclization of Vinyl Allylketones Into Cyclopentenones."

Thesis for degree of Cand. Chemical Sci. Sub. 28 Apr 49, Inst of Organic Chemistry, Acad Sci. USSR

Summary 82, 18 Dec 52, <u>Dissortations Presented For Decrees in Science and Engineering in Moscow in 1949</u>. From <u>Vechernyaya Moskva</u>, Jan-Dec 1949.

ZARETSKAYA, I. I.

USSR/Chemistry-Acetylene, Derivatives Chemistry-Hydration

Mar/Apr 49

"Acetylene Derivatives: No 87, Mcchanism of Diene Hydration and Cylization, XVII, H ydration and Cyclization of 5-Propyl-1, 5-Octadione-3-Ine, "
XVII, H ydration and Cyclization of 5-Propyl-1, 5-Octadione-3-Ine, "
I. N. Nazarov, I. I. Zaretskaya, Inst of Org Chem, Acad Sci USSR, 6 pp

"Iz Ak Nauk SSSR, Otdel Khim Nauk" No 2

Describes hydration of 5-propyl-1, 5-octadiene-3-ine into 5-propyl-1, 5-octadiene-4-on and cyclization of this dienome into 3-methyl-2-ethyl-1-propyl-1-cyclopentene-5-on. Submitted 20 Mar 48.

PA 43/49T10

CIA-RDP86-00513R001963820008-4" APPROVED FOR RELEASE: 09/19/2001

ZARETSKAYA, I. I.

USSR/Chemistry-Acetylene, Derivatives Chemistry-Hydration

Mar/Apr 49

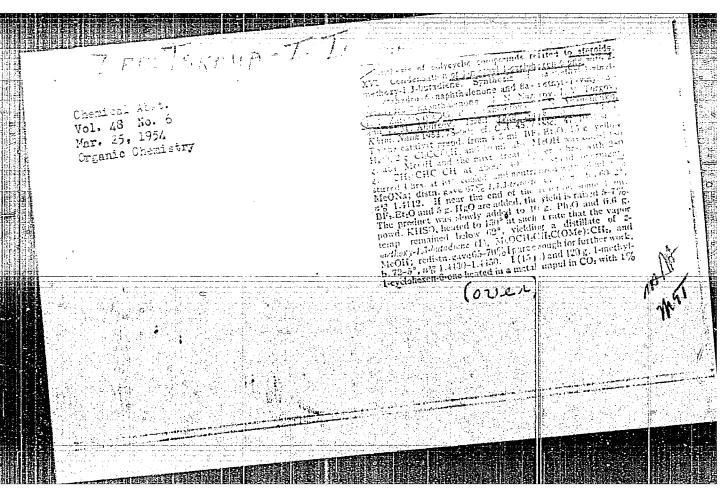
"Acetylene Derivatives: No 38, Mechanism of Diene Hydration and Cyclization, XVII, Hydration and Cyclization of 5-Methyl-1, 5-tetradecadiene-3-Ine," I. N. Nazarov, I. I. Zaretskaya, Inst of Org Chem, Acad Sci USSR, 6 pp

"Iz Ak Nauk SSSR, Otdel Khim Nauk" No 2

Describes hydration of 5-methyl-1, 5-tetradecadiene-3-ine into 5-methyl-1, 5-tetradecadiene-4-on and cyclizes the latter into 1,3-dimethyl-2-octyl-1-cyclopentene-5-on. Submitted 20 Mar 48.

PA 43/49T9

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820008-4

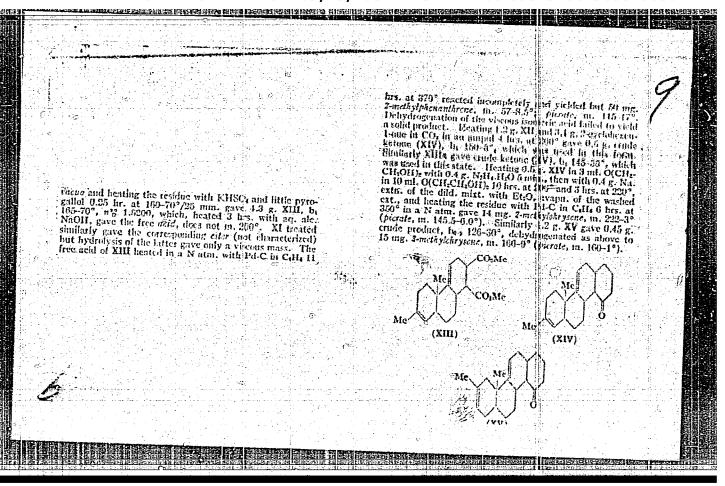


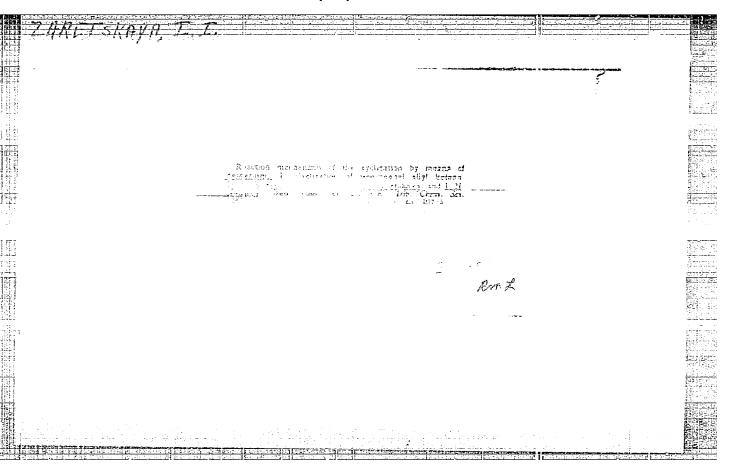
到的自动销去和国门车。1955年的经行市和进运过在6社间5的6万里。135日 民发现任命的 「550 ATK 经报应的股份的基础的 1950 ATK 经报应的 1950 ATK 195

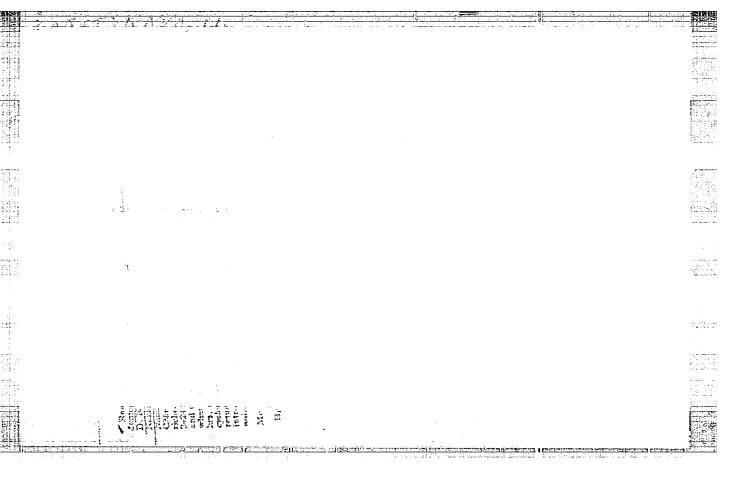
PhNEty 2.5 hrs. at 200-70° yielded after repeated distn. 44° mixed & methyl-fi-methaxy-\$\Delta\ella etahylro-l-naphthalenme (IA) and & methyl-fi-methaxy-\$\Delta\ella etahylro-l-naphthalenme (II), b, 92-6°. IA semicarbatone (provisionally characterized), m. 208-9.5°. Hydrogenation of mixed IA-II over Pd in dioxance gave & a-methyl-fi-methoxydeathydro-l-naphthalenne, ba. 89-91°, ny 1.4802, ba. 10.30; semicarbatone, m. 199-202° (decumpa.). To 7 g. Na in 300 ml. liquid NH, was lidded over 2 bra. C.H. at 20 l./hr., then 10.7 g. mixed IA-II in Et.O. the CHI, low continued 9 hrs., 20 g. NH.Cl added, and the mixt, allowed to stand overaight; treatment with H.O and extn. with Et.O gave 2 g. I-ethynyl-8-a-methyl-6-methoxy-\$\Omega\$-actahydro-l-naphthal (III), m. 123-3.5° (from CHCla). The mother liquor gave 6 g. mixed III and its 7-MiO inomer, b. 119-21°, n.5 1.5263. The use of K or Li luiled to give better results. Shaking III in Et.O 2 hrs. with 8% IICl gave 1(40% l-chynyl-8-a-methyl-l-hydroxydeahydro-6-naphthalenono (IV\subseteq m. 155-6°. To 17 g. Na in 860 ml. liquid NH, was added 40 l. C.H. in 1 hr., and, with a reduced rate of C.H. flow, the mixt. was treated with 80 g. mixed IA-II in 250 ml. Et.O, the possage of C.H. continued 6 hrs., and the mixt. kept overnight at -70°, treated with C.H. 5 hrs., allowed to evap-3; the residue, after addn. of Et.O, was treated with lee H.O, and the coned. org. layer treated with 100 ml. 1% HCl and stirred 3 hrs., yielding 34-9 g. IV, m. 158° (from EtOH or C.H.). The mother liquor treated with petr. ether gave 0-8 g. 7-oxo isomer of IV, m. 144° (from EtOH); the residue (13-16 g.) was a mixt. of the 2 substages; b., 134-6°, n.§ 1.528). Hydrogenation of IV over P(O₁ in EtOH gave the 1-B. analog, in. 127-8°; the other isomer similarly gave 1-cthyl-datashyl-hydroxydeahydro-7-nephthalenconone, m. 86°. Hydrogenation of IV in dioxane over Pd (1 inole II absorbed) gave a viscous mass, crystg. very slowly; the pure 1-vinyl-8a-methyl-1-hydroxydeachydro-7-in-phthalenconone, m. 86°. Hydroge

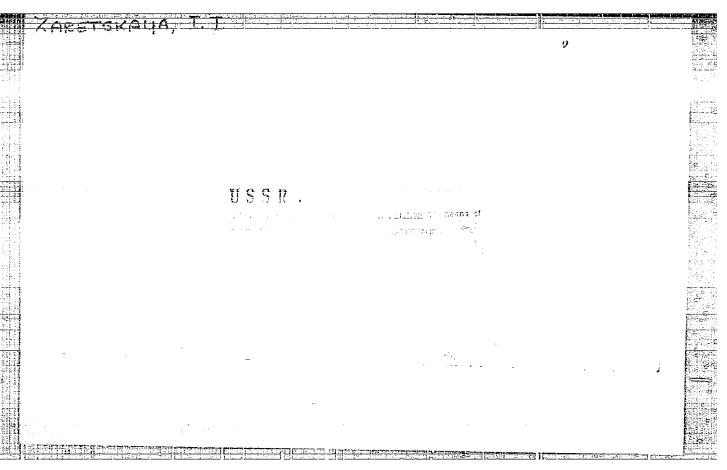
KHSO, in the presence of pyrogallo at 140-5°/40-5 mm. gave, resp. 67% Leringl-3a-nichyl-41-tuhydro-G-naphtholene one (VI), b. 114-17°, b. 100-3°, n. 5. 5260, d. d. 1.022 [conicorbatone, m. 174.7-6.0° (from EU)]), 224 74% leringle sanctingled-actuhyl-al-naphtholene (VII), b. 21-6°, n. 15. 15.70 (semicorbatone, m. 196-7). Hydrogenation of mixed IV and its 7-oxo isomer over la gave some 20°, V. and deh idration of the residue gavi. VI reactul spendancously with maleic ambydride and treatment of the product with ale, an, KOi, followed by architication, gave the previously described disaboxylic acid (VIII), n. 230-2.3°, VII similarly two the disaboxylic acid (I), decomp. 201°, becoming trainsparent only at 210°. V (2 g.), 10 ml. MePh, and 0.05 g. powd. KOII

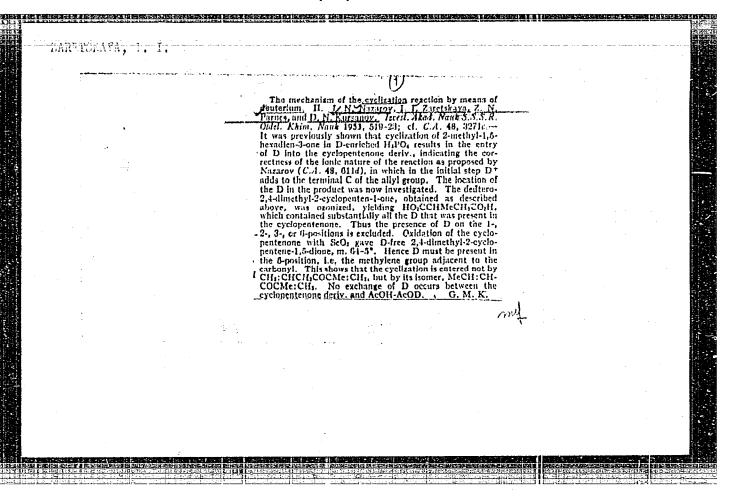
heated 0.5 k at 110° gave C.H. and a trace of Sa-methyl-1.6 disroctes tydronaphikalene, m. 61-2°. To McMgBr (from 13 g. k Br) was added in 10 min. at 5-10° 5 g. VI and the mixt i fluxed 5 min.; after discoupp, with ice and 20% HCl, th k g. layer gave 90% 1-613/6, Sa-dimethyl-Al-octahydra-6-m khal (X), be. 91-4°, n. 1. 1.5260. Similarly was obtained 37% 1-813/7, Sa-dimethyl-Al-octahydra-7-naphihal (XI) 102-6°, n. 1. 1.0230 Dehydralisi over KHSO, in the sence of pyrogallol at 140-60°/46 mm, gave, resp., 66 g. 1-113/2, Sa-dimethyl-Al-ockahydronaphihalene (XII), b. 1-2°, n. 1.5240, d. 0.949, and 1-vinyl-7, Sa-dimethyl-Al-ockahydronaphihalene (XII), b. 1-2°, n. 1.5240, d. 0.949, and 1-vinyl-7, Sa-dimethyl-Al-ockahydronaphihalene (XIII), b. 1-68-70°, n. 1.5220. (5.8 g.) heated will 15 g. di-Mc malente 6 hrs. at 100° ollowed by removing of unused ester in .











ZARETSKAYA, I.I.

USER/Chemistry - Synthosis

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Card Pub. 40 - 18/22 1/1 :

Authora Mazarov, I. N.; Zaretskeya, I. I.; Verkholetova, G. P.; and Torgov,

Synthesis of steroid compounds and their substances. Part 19 .-

The realization of a complete synthesis of D-homosteroid diketones of Abstract

Izv. AN SSSR. Otd. khim. nauk 5, 920-928, Sep-Oct 1953

the cis-cis series (with keto-group in position 15), through the condensation of 1-viny1-9-methy1- Δ^1 -6-octalone with 1 methy1- Δ^1 -cyclohexene-6-one, is described. The four isomeric tetricyclic ketones, formed as result of condensation and their physico-themical properties, ere also described. The displacement of the double bond from positions 9 to 11 and 8 to 9 was observed during the process of diene condensation. By reducing the steroid ketones, according to the Clemmens me-

thod, only the keto-group in the A-ring is eliminated and diketone converts into 15-monoketone. Eight references: 4-USSA; 2-USA and 2-German

(1929-1953). Academy of Sciences, USSR, Institute of Organic Chemistry

Institution

October 7, 1952 Submitted

ZARETSKAYA, I.I.
USBN/Chemistry - Synthesis

Card 1/1 | Pub. 40 - 19/22

Authors ! Nazarov, I. N.; Verkholetova, G. P.; Torgov, I. V.; Zaretskaya, I. I.;

and Ananchenko, S. N.

Title * Synthesis of steroid compounds and their substances. Part 20. -

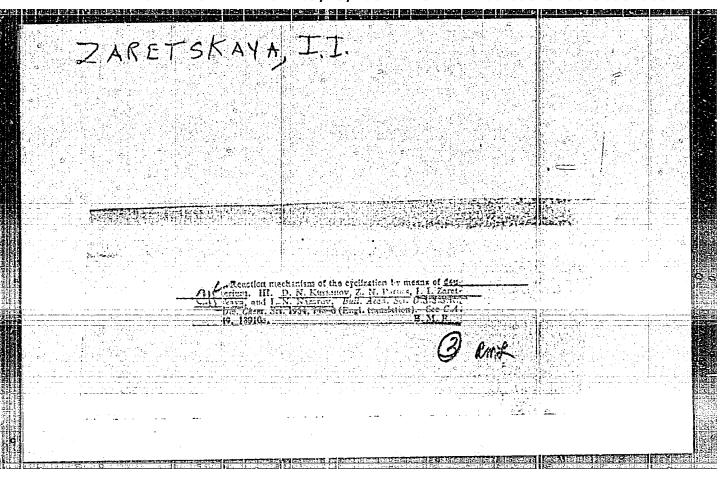
Periodical. 1 Lzv. AN SSSR. Otd. khim. nauk 5, 929-940, Sep-Oct 1913

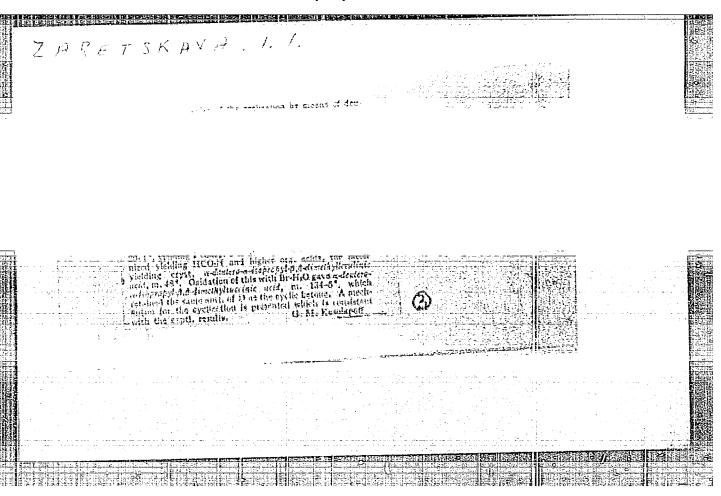
Abstract ! The synthesis of steroid diketones of the cis-cis series is described. The formation of three isomeric diketones, two of which have an inverted structure and are distinguished by a spatial position of substitutes, is explained. The products derived from the condens tion of 1-vinyl-9-methyl- Δ^1 -6-octalone with Δ^1 -cyclopentenone and with 1,3-dimethyl- Δ^1 cyclopentene-4,5-dione and their characteristics, and described. Wine

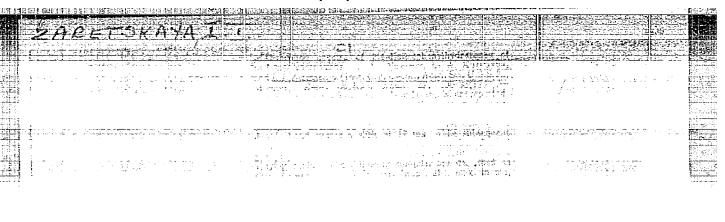
references: 7-USSR and 2-USA (1935-1953).

Institution : Academy of Sciences USSR, Institute of Organic Chemistry

Submitted : October 7, 1952







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